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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/599,858	BAKER ET AL.			
Office Action Summary	Examiner	Art Unit			
	NIZAR SIVJI	4172			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim 11 apply and will expire SIX (6) MONTHS from 12 cause the application to become ABANDONE	I.  lely filed  the mailing date of this communication.  D (35 U.S.C. § 133).			
Status					
<ul> <li>1) Responsive to communication(s) filed on 12 Oct</li> <li>2a) This action is FINAL. 2b) This</li> <li>3) Since this application is in condition for allowant closed in accordance with the practice under Exercise.</li> </ul>	action is non-final. ice except for formal matters, pro				
Disposition of Claims					
4) ☐ Claim(s) 1 - 24 is/are pending in the application 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1 - 24 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or Application Papers 9) ☐ The specification is objected to by the Examiner 10) ☐ The drawing(s) filed on 12 October 2006 is/are: Applicant may not request that any objection to the or	vn from consideration.  election requirement.  c. a)⊠ accepted or b)□ objected	•			
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119	ammer. Note the attached Office	Action of formal 10-102.			
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 05/14/2007, 10/02/2008.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	nte			

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## **DETAILED ACTION**

## Status of the Claim

1. Claim 1 - 24 are currently pending in this application.

## Claim Rejections - 35 USC § 102

- 2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:
  - A person shall be entitled to a patent unless -
  - (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claim 1, 9, 14, 18, 23, 24 are rejected under 35 U.S.C. 102(b) as being anticipated by Van Beek (Van) Pub. No. 2002/0083465.

As Per Claim 1. Van teaches a method of operating a radio network comprising a primary station (PS) and a plurality of secondary stations (SSI, SS2, SS3) (i.e., the CATV system 8 according to FIG. 1 comprises a primary station or head end 2 and a plurality of secondary stations or network terminations 4.Para 17).

wherein the primary station determines the level of interest by users of secondary stations in a service by allocating at least one plurality of access slots in which a secondary station can transmit an indication of its interest (i.e., the known CATV system (e.g. primary station) has, in the downstream direction, a frequency pass band comprising a plurality of substantially equally spaced and sized (6 MHz) frequency channels. This frequency band has a lower edge between 50 and 54 MHz and an upper edge that is implementation-dependent but is typically in the range of 300 to 864 MHz. Within that frequency band, (NTSC) analog television signals may be present, as well

as other narrowband and wideband digital signals. All these signals are transmitted in 6-MHz frequency channels. Some of these frequency channels may carry data signals which are of interest for the secondary stations Para 8).

As Per Claim 9. Van discusses a method as claimed in claim 1 as discussed above. Van further discusses that wherein a secondary station indicates its interest by transmitting a predetermined signal in a preselected one of a plurality of access slots (i.e., in the known CATV system (e.g. primary station) has, in the downstream direction, a frequency pass band comprising a plurality of substantially equally spaced and sized (6 MHz) frequency channels. This frequency band has a lower edge between 50 and 54 MHz and an upper edge that is implementation-dependent but is typically in the range of 300 to 864 MHz. Within that frequency band, (NTSC) analog television signals may be present, as well as other narrowband and wideband digital signals. All these signals are transmitted in 6-MHz frequency channels. Some of these frequency channels may carry data signals which are of interest for the secondary stations Para 8).

As Per Claim 14. Van discusses a method as claimed in claim 13 as discussed above. Van further teaches wherein when the estimated level of interest exceeds a predetermined level, the primary station instructs secondary stations waiting to transmit in their allocated access slot not to transmit (i.e., frequency channels may carry data signals which are transmitted from the primary station 2 to the secondary stations 4. On initialization or after signal loss, a secondary station 4 has to acquire such a downstream frequency channel. For this purpose, the secondary station has acquired means which has non-volatile storage in which the last operational parameters (related

to the last used downstream frequency channel or a preprogrammed frequency) are stored and which first tries to re-acquire this downstream frequency channel (the starting frequency). If this fails, the acquire means must begin to continuously scan the downstream frequency band until it finds a valid downstream frequency channel Para 17).

As Per Claim 18. Salloum teaches a radio network comprising a primary station (PS) and a plurality of secondary stations (SSI, SS2, SS3) (i.e., the CATV system 8 according to FIG. 1 comprises a primary station or head end 2 and a plurality of secondary stations or network terminations 4.Para 17),

wherein the primary station (PS) includes means for determining the level of interest by users of secondary stations in a service, said means adapted to allocate a plurality of access slots in which a secondary station can transmit an indication of its interest (i.e., in the known CATV system (e.g. primary station) has, in the downstream direction, a frequency pass band comprising a plurality of substantially equally spaced and sized (6 MHz) frequency channels. This frequency band has a lower edge between 50 and 54 MHz and an upper edge that is implementation-dependent but is typically in the range of 300 to 864 MHz. Within that frequency band, (NTSC) analog television signals may be present, as well as other narrowband and wideband digital signals. All these signals are transmitted in 6-MHz frequency channels. Some of these frequency channels may carry data signals which are of interest for the secondary stations Para 8).

As Per Claim 23. Salloum teaches a primary station for use in a radio network comprising at least one primary station (PS) and a plurality of secondary stations (SSI,

SS2, SS3(i.e., the CATV system 8 according to FIG. 1 comprises a primary station or head end 2 and a plurality of secondary stations or network terminations 4.Para 17), wherein the primary station (PS) includes means for determining the level of interest by users of secondary stations in a service, said means adapted to allocate a plurality of access slots in which a secondary station can transmit an indication of its interest (i.e., the known CATV system (e.g. primary station) has, in the downstream direction, a frequency pass band comprising a plurality of substantially equally spaced and sized (6 MHz) frequency channels. This frequency band has a lower edge between 50 and 54 MHz and an upper edge that is implementation-dependent but is typically in the range of 300 to 864 MHz. Within that frequency band, (NTSC) analog television signals may be present, as well as other narrowband and wideband digital signals. All these signals are transmitted in 6-MHz frequency channels. Some of these frequency channels may carry data signals which are of interest for the secondary stations Para 8).

As Per Claim 24. Van teaches secondary station for use in a radio network comprising a primary station (PS) and a plurality of the secondary stations (SSI, SS2, SS3) (i.e., the CATV system 8 according to FIG. 1 comprises a primary station or head end 2 and a plurality of secondary stations or network terminations 4.Para 17).

wherein the primary station (PS) includes means for determining the level of interest by users of secondary stations in a service CATV system (e.g. primary station) has, in the downstream direction, a frequency pass band comprising a plurality of substantially equally spaced and sized (6 MHz) frequency channels. This frequency band has a lower edge between 50 and 54 MHz and an upper edge that is

implementation-dependent but is typically in the range of 300 to 864 MHz. Within that frequency band, (NTSC) analog television signals may be present, as well as other narrowband and wideband digital signals. All these signals are transmitted in 6-MHz frequency channels. Some of these frequency channels may carry data signals which are of interest for the secondary stations (Para 8), said

means adapted to allocate a plurality of access slots in which a secondary station can transmit an indication of its interest the secondary station has acquire means which has non-volatile storage in which the last operational parameters (related to the last used downstream frequency channel) are stored and which first tries to reacquire this downstream frequency channel (the starting frequency Para 8),

wherein the secondary station (SSI, SS2, SS3) has means for indicating its interest in the service by transmitting a predetermined signal in selected one of the plurality of access slots that the acquire means must begin to continuously scan the downstream frequency band until it finds a valid downstream frequency channel (Para 8).

4. Claim 6-8, 11-13, 20 – 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Van Beek (Van) Pub. No. 2002/0083465 and further in view of Salloum Salazar et al. Pub. No. 2003/0072321

As Per Claim 6. Van teaches a method as claimed in claim 1 as discussed above.

Van does not discuss in detail wherein each access slot is characterized by a combination of one time slot and one signature, and wherein the primary station maps each plurality of access slots to a different service such that all secondary stations

interested in one service transmit using one of a plurality of access slots, and in that each combination of one time slot and one signature is contained in not more than one of the pluralities of access slots.

However, the preceding limitation is known in the art of communications. Solloum teaches in detail that the network entry procedures involve the determination of the transmission delay between the particular secondary station and the nominal strength with which the secondary station is received by the primary station. The primary station determines from the measured transmission delay and the measured strength, a delay compensation value and an output power setting for the secondary station. These values are transmitted to the secondary station, together with the Terminal Identification Number (TIN). The secondary station adapts the transmission instants and the transmission power in accordance to the delay compensation value and the power setting received from the primary station. In this way it is ensured that the signals received from the secondary stations are correctly aligned with respect to the timeslot boundaries and that the signals from the different secondary stations are received with substantially the same strength by the primary station. The terminal number has to be included by the secondary station in the header of each packet it transmits to the primary station (Para 55). Therefore, it is obvious to one having ordinary skill in the art at the time the invention was made that each access slot is characterized by a combination of one time slot and one signature, and wherein the primary station maps each plurality of access slots to a different service such that all secondary stations interested in one service transmit using one of a plurality of access slots, and in that

each combination of one time slot and one signature is contained in not more than one of the pluralities of access slots. Thus, allowing the primary station to acquire a frequency channel relatively fast.

As Per Claim 7. Salloum and Van discusses a method as claimed in claim 6 as discussed above. Salloum further discusses that wherein each plurality of access slots is characterized in that each access slot in the plurality uses the same signature and in that each access slot in the plurality uses a different time slot (i.e., the primary station determines from the measured transmission delay and the measured strength, a delay compensation value and an output power setting for the secondary station. These values are transmitted to the secondary station, together with the Terminal Identification Number (TIN). The secondary station adapts the transmission instants and the transmission power in accordance to the delay compensation value and the power setting received from the primary station Para 55).

As Per Claim 8. Salloum and Van discusses a method as claimed in claim 6 as discussed above. Salloum further discusses wherein each plurality of access slots is characterized in that each access slot in the plurality uses the same time slot and in that each access slot in the plurality uses a different signature (i.e., The primary station determines from the measured transmission delay and the measured strength, a delay compensation value and an output power setting for the secondary station. These values are transmitted to the secondary station, together with the Terminal Identification Number (TIN). The secondary station adapts the transmission instants and the transmission power in accordance to the delay compensation value and the power

setting received from the primary station. In this way it is ensured that the signals received from the secondary stations are correctly aligned with respect to the timeslot boundaries and that the signals from the different secondary stations are received with substantially the same strength by the primary station Para 55).

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As Per Claim 11. Van discusses a method as claimed in claim 1 as discussed above.

Van does not discuss in detail wherein the indications of interest are transmitted as spread spectrum signals and the number of indications is estimated by estimating the number of correlation peaks in a given access time slot.

However, the preceding limitation is known in the art of communications. Salloum teaches that the network entry procedures involve the determination of the transmission delay between the particular secondary station and the nominal strength with which the secondary station is received by the primary station. The primary station determines from the measured transmission delay and the measured strength, a delay compensation value and an output power setting for the secondary station. These values are transmitted to the secondary station, together with the Terminal Identification Number (TIN). The secondary station adapts the transmission instants and the transmission power in accordance to the delay compensation value and the power setting received from the primary station. In this way it is ensured that the signals received from the secondary stations are correctly aligned with respect to the timeslot boundaries and that the signals from the different secondary stations are received with substantially the same strength by the primary station (Para 55). Therefore, it is obvious to one having ordinary skill in the art at the time the invention was made that the

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indications of interest are transmitted as spread spectrum signals and the number of indications is estimated by estimating the number of correlation peaks in a given access time slot. Thus, allowing the primary station to acquire a frequency channel relatively fast.

As Per Claim 12. Van discusses a method as claimed in claim 1 as discussed above.

Van does not discuss in detail wherein the indications of interest are transmitted as spread spectrum signals and the number of indications is estimated by estimating the received energy in a given access slot.

However, the preceding limitation is known in the art of communications.

Salloum teaches that the network entry procedures involve the determination of the transmission delay between the particular secondary station and the nominal strength with which the secondary station is received by the primary station. The primary station determines from the measured transmission delay and the measured strength, a delay compensation value and an output power setting for the secondary station. These values are transmitted to the secondary station, together with the Terminal Identification Number (TIN). The secondary station adapts the transmission instants and the transmission power in accordance to the delay compensation value and the power setting received from the primary station. In this way it is ensured that the signals received from the secondary stations are correctly aligned with respect to the timeslot boundaries and that the signals from the different secondary stations are received with substantially the same strength by the primary station (Para 55). Therefore, it is obvious to one having ordinary skill in the art at the time the invention was made that the

indications of interest are transmitted as spread spectrum signals and the number of indications is estimated by estimating the received energy in a given access slot. Thus, allowing the primary station to acquire a frequency channel relatively fast.

As Per Claim 13. Van discusses a method as claimed in claim 1 as discussed above.

Van does not discuss in detail wherein the secondary stations are allocated to a respective one of two or more pluralities of access slots and in that a secondary station wishing to transmit an indication of interest, transmits in its allocated plurality of access slots.

However, the preceding limitation is known in the art of communications. Salloum teaches that in TDMA (Time Division Multiple Access) the time axis is divided into a plurality of time slots, in each of which a different secondary station can transmit information to the primary station (Para 7). Therefore, it is obvious to one having ordinary skill in the art at the time the invention was made that the secondary stations are allocated to a respective one of two or more pluralities of access slots and in that a secondary station wishing to transmit an indication of interest, transmits in its allocated plurality of access slots. Thus, allowing the primary station to acquire a frequency channel relatively fast by transmitting the information.

As Per Claim 20. Van teaches a radio network as claimed in claim 18 as discussed above.

Van does not discuss in detail wherein each access slot is characterized by a combination of one time slot and one signature, wherein the primary station (PS) comprises means for mapping each plurality of access slots to a different service such

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that all secondary stations interested in one service transmit using one of a plurality of access slots, and wherein each combination of one time slot and one signature is contained in not more than one of the pluralities of access slots.

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However, the preceding limitation is known in the art of communications. Solloum teaches that the network entry procedures involve the determination of the transmission delay between the particular secondary station and the nominal strength with which the secondary station is received by the primary station. The primary station determines from the measured transmission delay and the measured strength, a delay compensation value and an output power setting for the secondary station. These values are transmitted to the secondary station, together with the Terminal Identification Number (TIN). The secondary station adapts the transmission instants and the transmission power in accordance to the delay compensation value and the power setting received from the primary station. In this way it is ensured that the signals received from the secondary stations are correctly aligned with respect to the timeslot boundaries and that the signals from the different secondary stations are received with substantially the same strength by the primary station. The terminal number has to be included by the secondary station in the header of each packet it transmits to the primary station (Para 55). Therefore, it is obvious to one having ordinary skill in the art at the time the invention was made each access slot is characterized by a combination of one time slot and one signature, wherein the primary station (PS) comprises means for mapping each plurality of access slots to a different service such that all secondary stations interested in one service transmit using one of a plurality of access slots, and

wherein each combination of one time slot and one signature is contained in not more than one of the pluralities of access slots. Thus, allowing the primary station to acquire a frequency channel relatively fast.

As Per Claim 21. Van teaches a radio network as claimed in claim 18 as discussed above.

Van does not discuss in detail comprising spread spectrum transceiving means and wherein the estimating means is adapted to estimate the level of interest by estimating the number of correlation peaks in a respective access slot.

However, the preceding limitation is known in the art of communications.

Solloum teaches that the network entry procedures involve the determination of the transmission delay between the particular secondary station and the nominal strength with which the secondary station is received by the primary station. The primary station determines from the measured transmission delay and the measured strength, a delay compensation value and an output power setting for the secondary station. These values are transmitted to the secondary station, together with the Terminal Identification Number (TIN). The secondary station adapts the transmission instants and the transmission power in accordance to the delay compensation value and the power setting received from the primary station. In this way it is ensured that the signals received from the secondary stations are correctly aligned with respect to the timeslot boundaries and that the signals from the different secondary stations are received with substantially the same strength by the primary station Para 55). Therefore, it is obvious to one having ordinary skill in the art at the time the invention was made spread

spectrum transceiving means and wherein the estimating means is adapted to estimate the level of interest by estimating the number of correlation peaks in a respective access slot. Thus, allowing the primary station to acquire a frequency channel relatively fast.

As Per Claim 22. Van teaches a radio network as claimed in claim 18 as discussed above.

Van does not teach comprising spread spectrum transceiving means and wherein the estimating means is adapted to estimate the level of interest by estimating the received energy in a respective access slot.

However, the preceding limitation is known in the art of communications. Solloum teaches that the network entry procedures involve the determination of the transmission delay between the particular secondary station and the nominal strength with which the secondary station is received by the primary station. The primary station determines from the measured transmission delay and the measured strength, a delay compensation value and an output power setting for the secondary station. These values are transmitted to the secondary station, together with the Terminal Identification Number (TIN). The secondary station adapts the transmission instants and the transmission power in accordance to the delay compensation value and the power setting received from the primary station. In this way it is ensured that the signals received from the secondary stations are correctly aligned with respect to the timeslot boundaries and that the signals from the different secondary stations are received with substantially the same strength by the primary station (Para 55). Therefore, it is obvious

to one having ordinary skill in the art at the time the invention was made that the spread spectrum transceiving means and wherein the estimating means is adapted to estimate the level of interest by estimating the received energy in a respective access slot. Thus, allowing the primary station to acquire a frequency channel relatively fast.

5. Claim 2-5, 10, 15 – 17, 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Salloum Salazar et al. Pub. No. 20030072321 and further in view of Van Beek (Van) Pub. No. 2002/0083465 and further in view of Cooper Pub. No. 2002/0069038

As Per Claim 2. Salloum and Van teaches a method as claimed in claim 1 as discussed above. Van further teaches wherein the primary station estimates the level of interest from the number of transmitted indications and selects a transmission mode of the service in dependence on whether the level of interest is relatively high or relatively low (i.e., the known CATV system (e.g. primary station) has, in the downstream direction, a frequency pass band comprising a plurality of substantially equally spaced and sized (6 MHz) frequency channels. This frequency band has a lower edge between 50 and 54 MHz and an upper edge that is implementation-dependent but is typically in the range of 300 to 864 MHz. Within that frequency band, (NTSC) analog television signals may be present, as well as other narrowband and wideband digital signals. All these signals are transmitted in 6-MHz frequency channels. Some of these frequency channels may carry data signals which are of interest for the secondary stations Para 8).

Salloum and Van does not discuss in detail whether the level of interest is relatively high or relatively low.

However, the preceding limitation is known in the art of communications. Cooper teaches that the forward error correction parameters requires balancing the amount of overhead added by the error correcting code (because the error correcting codes utilizes bandwidth that could have been used for information and therefore decreases information through-put) and the amount of error correction needed due to channel conditions (which may serve to increase data through-put through avoidance of retransmission). In the optimum situation, to maximize through-put of information over a given communications channel, the error correcting code would utilize precisely enough error correction to compensate for the existing noise level, no more or no less (Para 22). Therefore, it is obvious to one having ordinary skill in the art at the time the invention was made that primary station estimates the level of interest. Thus, minimizing the through-put delay or latency in the communication equipment.

As Per Claim 3. Salloum, Van and Cooper discuss a method as claimed in claim 2 as discussed above. Cooper further teaches wherein the transmission mode for a relatively high level of interest is point- to-multipoint (i.e., the primary station 101 can be a simple transmitter for point - point- to- or point- to-multipoint communications with one or more of the secondary stations 110, 112, 114, and 116. In another embodiment, the primary station 101 can be a bi-directional transceiver for point - point- to- and point- to-multipoint communications with the secondary stations 110, 112, 114, and 116. Para 17).

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As Per Claim 4. Salloum, Van and Cooper discuss a method as claimed in claim 2 as discussed above. Cooper further teaches wherein the transmission mode for a relatively low level of interest is point- to-point (i.e., the primary station 101 can be a simple transmitter for point - point- to- or point- to-multipoint communications with one or more of the secondary stations 110, 112, 114, and 116. In another embodiment, the primary station 101 can be a bi-directional transceiver for point - point- to- and point- to-multipoint communications with the secondary stations 110, 112, 114, and 116. Para 17).

As Per Claim 5. Salloum, Van and Cooper discuss a method as claimed in claim 2 as discussed above. Salloum further teaches wherein the primary station sets a threshold level for determining the transmission mode of the service (i.e., Measure RSSI The strength of the RF signal in the current time slot is measured. 25 RSSI > Threshold Para 50) and, when the number of indications exceeds the threshold level, the transmission mode for the relatively high level of interest is operated (i.e., strength value is larger than the threshold then transmission mode is operated Fig 6 and Para 53 – 60).

As Per Claim 10. Salloum and Van discusses a method as claimed in claim 1 as discussed above.

Salloum and Van does not discuss in detail wherein a secondary station indicates its interest by transmitting a predetermined signal in a randomly selected one of a plurality of access slots.

However, the preceding limitation is known in the art of communications. Cooper teaches that wireless communications systems are susceptible to noise sources that

disrupt the channel on a random and unpredictable basis. Forward error correction is preferably employed in a communications channel (Para 19). Therefore, it is obvious to one having ordinary skill in the art at the time the invention was made that a secondary station indicates its interest by transmitting a predetermined signal in a randomly selected one of a plurality of access slots. Thus, will change the quality of the communications link.

As Per Claim 15. Salloum and Van discusses a method as claimed in claim 1 as discussed above. Van discusses in detail wherein a secondary station indicating an interest in a service (i.e., the known CATV system (e.g. primary station) has, in the downstream direction, a frequency pass band comprising a plurality of substantially equally spaced and sized (6 MHz) frequency channels. This frequency band has a lower edge between 50 and 54 MHz and an upper edge that is implementation-dependent but is typically in the range of 300 to 864 MHz. Within that frequency band, (NTSC) analog television signals may be present, as well as other narrowband and wideband digital signals. All these signals are transmitted in 6-MHz frequency channels. Some of these frequency channels may carry data signals which are of interest for the secondary stations Para 8).

Salloum and Van does not discuss in detail quality level for receiving the service.

However, the preceding limitation is known in the art of communications. Cooper discusses (i.e., The receiving unit, such as the primary station 101 uses the error correcting code to detect received errors in the information data and to correct as many detected errors as permitted by the number of error correcting bits (or bytes). As a

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consequence, the receiving unit must know, prior to the receipt of the data, the type of error correcting code employed at the transmitter so that proper decoding and error correction can be accomplished at the receiver. This exchange of forward error correction parameters may be accomplished by prior arrangement during a parameter exchange message sequence, which may occur at fixed periodic intervals or at sporadic intervals that coincide with changes in the quality of the communications link. Para 19). Therefore, it is obvious to one having ordinary skill in the art at the time the invention was made that a secondary station indicating an interest in a service also quality level for receiving the service. Thus, will change the quality of the communications link. As Per Claim 16. Salloum Van and Cooper discusses a method as claimed in claim 15 as discussed above, Cooper further teaches wherein the primary station transmits a higher quality level of service in a mode different from the transmission of a lower quality level of service (i.e., The receiving unit, such as the primary station 101 uses the error correcting code to detect received errors in the information data and to correct as many detected errors as permitted by the number of error correcting bits (or bytes). As a consequence, the receiving unit must know, prior to the receipt of the data, the type of error correcting code employed at the transmitter so that proper decoding and error correction can be accomplished at the receiver. This exchange of forward error correction parameters may be accomplished by prior arrangement during a parameter exchange message sequence, which may occur at fixed periodic intervals or at sporadic intervals that coincide with changes in the quality of the communications link. Para 19).

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As Per Claim 17. Salloum and Van discusses a method as claimed in claim 1 as discussed above.

Salloum and Van does not discuss in detail characterized in that the primary station transmits a basic data stream as a point-to-multipoint transmission and a supplementary data stream for enhancing the quality of the basic data stream as a point-to-point transmission.

However, the preceding limitation is known in the art of communications. Cooper discusses that the primary station 101 can be a simple transmitter for point - point- to- or point- to-multipoint communications with one or more of the secondary stations 110, 112, 114, and 116. In another embodiment, the primary station 101 can be a bidirectional transceiver for point - point- to- and point- to-multipoint communications with the secondary stations 110, 112, 114, and 116. (Para 17). Therefore, it is obvious to one having ordinary skill in the art at the time the invention was made characterized in that the primary station transmits a basic data stream as a point-to-multipoint transmission and a supplementary data stream for enhancing the quality of the basic data stream as a point-to-point transmission. Thus, minimizing the through-put delay or latency in the communication equipment.

As Per Claim 19. Salloum and Van teaches a method as claimed in claim 1 as discussed above. Van teaching further comprising estimating means for estimating the level of interest from the number of transmitted indications (i.e., the known CATV system (e.g. primary station) has, in the downstream direction, a frequency pass band comprising a plurality of substantially equally spaced and sized (6 MHz) frequency

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channels. This frequency band has a lower edge between 50 and 54 MHz and an upper edge that is implementation-dependent but is typically in the range of 300 to 864 MHz. Within that frequency band, (NTSC) analog television signals may be present, as well as other narrowband and wideband digital signals. All these signals are transmitted in 6-MHz frequency channels. Some of these frequency channels may carry data signals which are of interest for the secondary stations Para 8) and

Salloum and Van does not teach mode selection means for selecting a transmission mode of the service in dependence on whether the level of interest is relatively high or relatively low.

However, the preceding limitation is known in the art of communications. Cooper teaches that the forward error correction parameters requires balancing the amount of overhead added by the error correcting code (because the error correcting codes utilizes bandwidth that could have been used for information and therefore decreases information through-put) and the amount of error correction needed due to channel conditions (which may serve to increase data through-put through avoidance of retransmission). In the optimum situation, to maximize through-put of information over a given communications channel, the error correcting code would utilize precisely enough error correction to compensate for the existing noise level, no more or no less (Para 22). Therefore, it is obvious to one having ordinary skill in the art at the time the invention was made that primary station estimates whether the level of interest is relatively high or relatively low. Thus, minimizing the through-put delay or latency in the communication equipment.

## Conclusion

 Any inquiry concerning this communication or earlier communications from the examiner should be directed to NIZAR SIVJI whose telephone number is (571)270-7462. The examiner can normally be reached on Mon - Fri 8:00AM -5:00PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lewis West can be reached on 5712727859. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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